

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Inventor(s): Sugiyama et al.

Appln. No.: 09

Series Code ↑

098,730

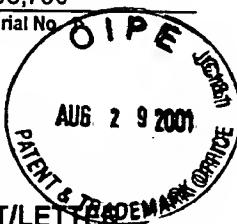
Serial No.

Filed: June 18, 1998

Hon. Commissioner of Patents
Washington, D.C. 20231

Sir:

REPLY/AMENDMENT/LETTER



Group Art Unit 1743

Examiner: Tung

Atty. Dkt. P 254782

M# Ue-9817-TS-A

Client Ref

Appln. Title: MULTILAYERED AIR-FUEL RATIO
SENSOR

Date: August 29, 2001

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

FEE REQUIREMENTS FOR CLAIMS AS AMENDED

1. Small Entity claim	For B & C See Required Separate Paper (Pal-256)				
A. <input checked="" type="checkbox"/> NOT made					
B. <input type="checkbox"/> Withdrawn					
C. <input type="checkbox"/> made herewith					
D. <input type="checkbox"/> made previously					

	Claims remaining after amendment	Highest number previously paid for	Present Extra	Large/Small Entity	Additional Fee	Fee Code Lg/Sm
2. Total Effective Claims	12	**minus 20	0	x \$18/\$9 =	+ \$0	103/203
3. Independent Claims	2	***minus 3	0	x \$80/\$40 =	+ \$0	102/202
4. If amendment enters proper multiple dependent claim(s) into this application for first time (leave blank if this is a reissue application)		add	+ \$270/\$135 =	+ \$0		104/204
5. Original due Date: August 11, 2001	<input type="checkbox"/> NONE					
6. Petition is hereby made to extend the original due date to cover the date this response is filed for which the requisite fee is attached	(1 mo)	\$110/\$55 =				115/215
	(2 mos)	\$390/\$195 =	+ \$110			116/216
	(3 mos)	\$890/\$445 =				117/217
	(Usable only for ≤ 2mo.OA - - 4 mos)	\$1390/\$695=				118/218
	(Usable only for 30 day/1mo.OA - - 5 mos)	\$1890/\$945=				128/228
7. Enter any previous extension fee paid since above original due date and subtract		- \$0				
8.		Extension Fee Attached	+ \$110			
9. If Terminal Disclaimer attached, add Rule 20(d) official fee		+ \$110/\$55	+ \$0			148/248
10. If IDS attached requires Official Fee under Rule 97 (c),	add	+ \$180				126
or if Rule 97(d) Request	add	+ \$180	+ \$0			126
11. After-Final Request Fee per rules 129(a) and 17(r)		+ \$710/355	+ \$0			146/246
12. No. of additional inventions for examination per Rule 129(b).....		x \$710/355 ea	+ \$0			149/249
13. Request for Continued Examination (RCE)		+ \$710/355	+ \$0			1179/1279
14. Petition fee for			+ \$0			
15.		TOTAL FEE ENCLOSED =	\$110			

16. *If the entry in this space is less than entry in next space, the "Present Extra" result is "0".

17. **If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.

18. ***If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.

08/30/2001 SDENB0B1 00000078 09098730

02 FC:115

110.00 0P

Our Deposit Account No. 03-3975

(Our Order No. 60388 254782

C# M#

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.

Query: Is appeal deadline now? If so, file Notice of Appeals separately.

Pillsbury Winthrop LLP
Intellectual Property Group

By Atty: Kenneth M. Fagin

Reg. No. 37,615

1600 Tysons Boulevard

Sig:

Fax: (703) 905-2500

McLean, VA 22102

Tel: (703) 905-2066

Tel: (703) 905-2000

Atty/Sec: KMF/emg

NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments

A. Lawrence
7/26/01
9-6-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF
SUGIYAMA et al.
Appln. No.: 09/098,730
Filed: June 18, 1998



Title: MULTILAYERED AIR-FUEL RATIO SENSOR

Group Art Unit: 1743

Examiner: Tung

DO NOT ENTER
✓OK TO ENTER M
OK AS ENTERED

August 29, 2001

* * * * *

AMENDMENT

Hon. Commissioner of Patents
Washington, D.C. 20231

RECEIVED
SEP - 4 2001
TC 1700 MAIL ROOM

Sir:

In response to the Office Action mailed May 11, 2001, please amend the Application identified above as follows:

IN THE CLAIMS:

Please cancel claims 8, 9, 12-17, and 23 without prejudice or disclaimer.

~~Please enter the following amended claims:~~

Sub H1
1. (Six times amended) A multilayered air-fuel ratio sensor having a plurality of

stacked layers comprising:

Sub H1
a plurality of substrate layers comprising at least one solid electrolytic substrate layer and at least one insulating substrate layer; and

Sub H1
a boundary layer interposed between said solid electrolytic substrate layer and said insulating substrate layer;

wherein said boundary layer has an average sintered particle size that is larger than that of said solid electrolytic substrate layer and that is larger than that of said insulating substrate layer.